Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to roads and Drains at Basavalingappa badavane and Rajiv Gandhinagara and Chikkabettahalli in ward no-03 of Yelahanka Satellite Town Sub Division

Modified Schedule - B

Sl No	Description of Item	Unit	Quantity	Rate, Rs	
				In Figures	In Words
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications	Cum	1542.10	225.94	Rupees Two Hundred Twenty Five And Paise Ninety Four Only
	Above 125%	Cum	54.58	225.94	Rupees Two Hundred Twenty Five And Paise Ninety Four Only
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. a) 40mm Jelly	Cum	0.00	1995.10	Rupees One Thousand Nine Hundred Ninety Five And Paise Ten Only
3	b) 40mm Jelly	Cum	0.00	1995.10	Rupees One Thousand Nine Hundred Ninety Five And Paise Ten Only
4	c) 20mm jelly	Cum	0.00	2782.22	Rupees Two Thousand Seven Hundred Eighty Two And Paise Twenty Two Only
5	d) Fine Sand	Cum	0.00	2782.22	Rupees Two Thousand Seven Hundred Eighty Two And Paise
6	e) 12.5mm chips	Cum	0.00	1995.10	Rupees One Thousand Nine Hundred Ninety Five And Paise Ten Only
7	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)	m	0.00	11358.02	Rupees Eleven Thousand Three Hundred Fifty Eight And Paise Two Only
8	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate	Sqm	0.00	74.55	Rupees Seventy Four And Paise Fifty Five Only
9	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications	Cum	847.95	5690.28	Rupees Five Thousand Six Hundred Ninety And Paise Twenty Eight Only
10	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications	Cum	508.23	7420.17	Rupees Seven Thousand Four Hundred Twenty And Paise Seventeen Only
	Above 125%	Cum	9.85	7420.17	Rupees Seven Thousand Four Hundred Twenty And Paise Seventeen Only
11	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification	Tn	31.54	77654.86	Rupees Seventy Seven Thousand Six Hundred Fifty Four And Paise Eighty Six Only
	Above 125%	Tn	0.77	77654.86	Rupees Seventy Seven Thousand Six Hundred Fifty Four And Paise Eighty Six Only

	viding and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 d Jelly 20mm Down size with steel reinforcement including form vork,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	1248.38	2452.68	Rupees Two Thousand Four Hundred Fifty Two And Paise Sixty Eight Only
	Above 125%	Sqm	146.87	2452.68	Rupees Two Thousand Four Hundred Fifty Two And Paise Sixty Eight Only
13	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and Jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.	Sqm	81.00	5686.19	Rupees Five Thousand Six Hundred Eighty Six And Paise Nineteen Only
	Above 125%	Sqm	13.81	5686.19	Rupees Five Thousand Six Hundred Eighty Six And Paise Nineteen Only
14	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge.	Nos	2361.25	453.89	Rupees Four Hundred Fifty Three And Paise Eighty Nine Only
	Above 125%	Nos	3445.75	453.89	Rupees Four Hundred Fifty Three And Paise Eighty Nine Only
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification	Sqm	318.75	89.00	Rupees Eighty Nine Only
	Above 125%	Sqm	465.15	89.00	Rupees Eighty Nine Only
16	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	1665.75	67.11	Rupees Sixty Seven And Paise Eleven Only
	Above 125%	Cum	852.19	67.11	Rupees Sixty Seven And Paise Eleven Only
17	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)	Sqm	0.00	43.39	Rupees Forty Three And Paise Thirty Nine Only
18	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications	Cum	1279.31	2093.67	Rupees Two Thousand Ninety Three And Paise Sixty Seven Only
19	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	1918.97	2100.34	Rupees Two Thousand One Hundred And Paise Thirty Four Only
20	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.	Sqm	8528.75	31.15	Rupees Thirty One And Paise Fifteen Only
21	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / orcompressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as	Sqm	0.00	5.56	Rupees Five And Paise Fifty Six Only
22	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.	Sqm	8528.75	13.35	Rupees Thirteen And Paise Thirty Five Only

	8 M500-17. Providing and laying dense graded bituminous macadam using ,hed aggregates of specified grading, premixed with VG30 grade bituminous ıder and, transporting the hot mix to work site, laying to the required grade, evel and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	426.44	6724.88	Rupees Six Thousand Seven Hundred Twenty Four And Paise Eighty Eight Only
24	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)	Cum	341.15	7910.77	Rupees Seven Thousand Nine Hundred Ten And Paise Seventy Seven Only
25	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	266.31	477.25	Rupees Four Hundred Seventy Seven And Paise Twenty Five Only
26	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-	Nos	102.00	374.90	Rupees Three Hundred Seventy Four And Paise Ninety Only
27	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 4km lead	Cum	467.35	1010.86	Rupees One Thousand Ten And Paise Eighty Six Only
28	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to	Cum	581.97	5468.90	Rupees Five Thousand Four Hundred Sixty Eight And Paise Ninety Only
	EIRL				
E1	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	52.26	6031.81	Rupees Six Thousand Thirty One And Paise Eighty One Only

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